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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/982,840	10/22/2001	Hiroshi Ikeda	826.1764	8384	
21171 75	12/02/2004		EXAMINER		
STAAS & HALSEY LLP			DIMYAN, MAGID Y		
SUITE 700 1201 NEW YORK AVENUE, N.W.		ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20005			2825		
			DATE MAILED 10/02/200	DATE MAIL ED. 12/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

14.		Application No.	Applicant(s)			
•		09/982,840	IKEDA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Magid Y Dimyan	2825			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>21 October 2001</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) 6) 7)	4) Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-32 are subject to restriction and/or election requirement.					
Applicati	ion Papers					
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	ate atent Application (PTO-152)			

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1 24 and 29 32, drawn to a method and storage medium for searching for a signal route, classified in class 716, subclass 12.
 - Claim 25, drawn to a method of carrying out timing analysis on data and clock routes, classified in class 716, subclass 6.
 - III. Claim 26, drawn to a method for carrying out a waveform analysis on a clock route by analyzing the clock pulse width, classified in class 716, subclass 5.
 - IV. Claims 27 and 28, drawn to a method for carrying out a simulation for verification based on data and clock route data information, classified in class 716, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

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2. Inventions Group I, Group II, Group III and Group IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention Group I has separate utility such as a signal route searching methodology; invention Group II has separate utility such as timing analysis of data and clock routes; invention Group III has separate utility such as waveform analysis of clock routes by analyzing clock pulse width; and invention Group IV has separate utility such as circuit simulation based on route data information. See MPEP § 806.05(d).

- 3. Because these inventions are distinct for the reasons given above and the search required for each for the four distinct groups are exclusive, restriction for examination purposes as indicated is proper.
- 4. Applicants are advised that the reply to this restriction requirement to be complete must include an election of the invention to be examined even though the requirement can be traversed (37 CFR 1.143).
- 5. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magid Y Dimyan whose telephone number is (571) 272-1889. The examiner can normally be reached on Monday - Friday 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Magid Y Dimyan Examiner Art Unit 2825 Application/Control Number: 09/982,840

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myd 22 November 2004

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